PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicantly or agently file reference				
Applicant's or agent's file reference P0133PCT	FOR FURTHER AC	TION	See Form PCT/IPEA/416	
International application No. International fill PCT/ES2004/000147 31.03.2004		lay/month/year)	Priority date (day/month/year) 31.03.2003	
International Patent Classification (IPC) or national classification and IPC C12N7/04				
Applicant	STIGACIONES CIENT	et al		
CONSEJO SUPERIOR DE INVESTIGACIONES CIENT et al				
This report is the international part Authority under Article 35 and to the international part and the international part an	oreliminary examination repartments	oort, established by this according to Article 36	s International Preliminary Examining 3.	
2. This REPORT consists of a total of sheets, including this cover sheet.				
This report is also accompanied by ANNEXES, comprising:				
a. sent to the applicant and to the International Bureau) a total of sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
Box Relating to Sequen	ice Listing (see Section 802	2 Of the Authorist anve	meducione).	
4. This report contains indications relating to the following items:				
☑ Box No. I Basis of the	opinion			
☐ Box No. II Priority				
☐ Box No. III Non-establis	hment of opinion with rega	rd to novelty, inventive	step and industrial applicability	
☐ Box No. IV Lack of unity				
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
☐ Box No. VI Certain docu	ıments cited			
⊠ Box No. VII Certain defe	cts in the international appl	ication		
☐ Box No. VIII Certain obse	ervations on the internation	al application		
Date of submission of the demand		Date of completion of the	nis report	
27.01.2005		13.07.2005		
Name and mailing address of the international		Authorized Officer	nas Palpar.	
preliminary examining authority:			John Mile	
European Patent Office D-80298 Munich		Scheffzyk-Sonnau	er, () () ()	
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/ES2004/000147

JC20 Rec'd PCT/PTO 3 0 SEP 2005

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	Box No		Basis of the report	
	With regard to the language , this report is based on the international application in the language in which it wa filed, unless otherwise indicated under this item.			
	wł	hich i	port is based on translations from the original language into the following language , s the language of a translation furnished for the purposes of:	
	П	pub	rnational search (under Rules 12.3 and 23.1(b)) lication of the international application (under Rule 12.4) rnational preliminary examination (under Rules 55.2 and/or 55.3)	
2.	With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):			
	Danasi			
	Descri	ption	, Pages	
	1-37		as originally filed	
	Claims	s, Nur	mbers	
	1-38		as originally filed	
Drawings, Sheets		ngs, S	Sheets	
	1/9-9/9		as originally filed	
	□а	sequ	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing	
3	. 🗆 т	he ai	mendments have resulted in the cancellation of:	
		_	e description, pages	
			e claims, Nos.	
			e drawings, sheets/figs e sequence listing <i>(specify)</i> :	
	_	an	y table(s) related to sequence listing (specify):	
4	had n	ot be	eport has been established as if (some of) the amendments annexed to this report and listed below een made, since they have been considered to go beyond the disclosure as filed, as indicated in the ntal Box (Rule 70.2(c)).	
	[] the	e description, pages e claims, Nos. e drawings, sheets/figs	
] the	e sequence listing (specify): by table(s) related to sequence listing (specify):	
			to 4 applies some or all of these sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/ES2004/000147

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-7,9,12,16,18,19,21,23-25,28-30,35-38

No: Claims

8,10,11,13,14,15,17,20,22,26,27,31-34

Inventive step (IS)

Yes: Claims

No: Claims

1-38

Industrial applicability (IA)

Yes: Claims

1-38

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/ES2004/000147

SECTION V-----

As already mentioned in the application (cf. pp. 4 and 5) hitherto a great number of IBDV VLPs have been described in the prior art (cf. e.g. Lombardo E. et al., 1999, J. Virol. 73, 6973-83 (1), cited in the application). Correspondingly, claims relating to such capsids cannot be considered to be novel; i.e. claims 26, 27,31,32, 33, 34 lack novelty. As regards claims 32-34 it is noted that an indication of use is not considered limiting the scope of a product claim, i.e. the claim relates to the product as such.

In addition, the HeLa cells described in (1) (see section Materials and Methods) coinfected with VT7LacOl/POLY and VT7LacOl/VP1 anticipate at least novelty of claims relating to expression systems wherein the first and second promoter are identical (see e.g. claim 8b, 10, 11, 13, 14, 15, 17). Correspondingly in view of the disclosure of (1) claims 20 and 22 also lack novelty.

Finally, in the light of the teaching of (1) presently claimed subjet-matter only can be seen as an obvious alternative to a person skilled in the art working in the field of IBDV. Consequently, for the time being the presence of an inventive step cannot be acknowledged.

SECTION VIII-----

- 1). With respect to claims directed to the use of VLPs as vaccine Applicant's attention is drawn to page 5, lines 4 and 5 of present application where it is stated that the capsids taught in (1)- which are identical to those as presently claimed- are not suitable for vaccination purposes. This seems to be in contradiction with presently claimed subject-matter, in particular with respect to claims 28-34. Thus, as regards these claims objections under Art. 6/5 PCT also arise.
- 2). Claims containing the term "corresponding to" are objected to under Art. 6 PCT for lack of clarity since said term does not convey an exact meaning.

SECTION VII-----

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/ES2004/000147

- 1). According to claims 8b, 10 and 25 the first and second promoter must not be different as required in claim 1 but can be the same. This option possibly entails problems inter alia with respect to unity.
- 2). In its broadest meaning the term "expression system" covers human beings which are per se not patentable.
- 3). Claims 21 and 22 seem to be redundant in view of claim 20.